



NVLAP LAB CODE 200707-0



EN 55024: 1998+A1: 2001+A2: 2003

MEASUREMENT AND TEST REPORT

For

Xingtel Xiamen Electronics Co., Ltd.

Xingtel Building, Chuangxin Rd, Torch Hi-tech Ind. District Xiamen 361006, PR China

Model: XL-2095IDM; TK4040

Report Type: Original Report	Product Type: Corded phone
Test Engineer:	Eric Zhang 
Report Number:	RSZ09102802-2
Report Date:	2009-11-11
Reviewed By:	Lisa Zhu EMC Engineer 
Prepared By:	Bay Area Compliance Laboratories Corp. (Shenzhen). 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP*, NIST, or any agency of the Federal Government.

* This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk " *" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Xingtel Xiamen Electronics Co., Ltd.*'s product, model number: *XL-2095IDM* or the "EUT" as referred to in this report is a *Corded phone*, which measures approximately: 18.0 cm L x 14.0 cm W x 7.7 cm H, rated input voltage: DC 6V battery.

Note: The serial product model XL-2095IDM; TK4040, we select XL-2095IDM to test. These two models are electrically and mechanically identical and their difference is only the model name and Trade name, which were explained in the attached declaration letter.

** All measurement and test data in this report was gathered from production sample serial number: 0910029 (Assigned by BACL, Shenzhen). The EUT was received on 2009-10-28.*

Objective

The following test report is prepared on behalf of *Xingtel Xiamen Electronics Co., Ltd.* in accordance with EN 55024, Information technology equipment- Immunity characteristics – Limits and methods of measurement.

The objective of the manufacturer is to determine compliance with EN 55024.

Related Submittal(s)/Grant(s)

No related submittal(s).

Test Methodology

All measurements contained in this report were conducted with CISPR 16-1: 2002, radio disturbance and immunity measuring apparatus, and CISPR16-2: 2002, Method of measurement of disturbances and immunity.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 Meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 21, 2007. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at <http://ts.nist.gov/Standards/scopes/2007070.htm>.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

EUT Exercise Software

N/A.

Special Accessories

The special accessories were supplied by Bay Area Compliance Laboratories Corp. (Shenzhen).

Equipment Modifications

No modification was made to the unit tested.

Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
One Ke	Telephone Exchange	TC-108H	N/A	N/A
TIANNIAO	Phone	TL2201	N/A	N/A
Com-power	Loop Simulator	LS468	N/A	N/A

External I/O Cable

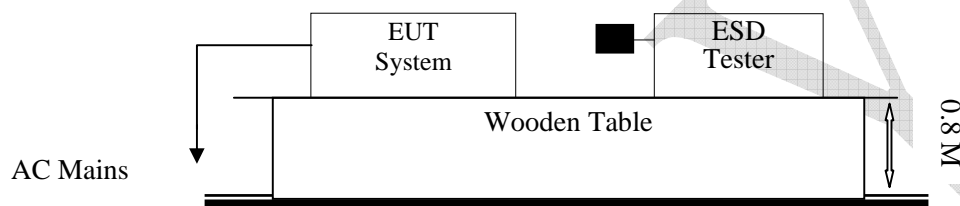
Cable Description	Length (m)	From Port	To
Unshielded Detachable RJ11 Cable	3.0	EUT	CDN T200

SUMMARY OF TEST REPORT

RULE	DESCRIPTION	RESULTS
§4.2.1	Electrostatic Discharge EN 61000-4-2	Compliant
§4.2.2	Electrical Fast Transients EN 61000-4-4	Compliant
§4.2.3.1	Continuous Radiated Disturbance EN 61000-4-3	Compliant
§4.2.3.2	Continuous Conducted Disturbance EN 61000-4-6	Compliant
§4.2.4	Power Frequency Magnetic Fields EN 61000-4-8	Compliant
§4.2.5	Surges EN 61000-4-5	Compliant
§4.2.6	Voltage Dips And Interruptions, EN 61000-4-11	N/A

EN 55024 §4.2.1-ELECTROSTATIC DISCHARGES (EN 61000-4-2)**Test Equipment**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EM Test	ESD Tester	Dito	302105	2009-09-27	2010-09-26

Test System Setup

Remark: ■ is the tip of the electrode

EN 61000-4-2 specifies that a tabletop EUT shall be placed on a non-conducting table which is 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on a insulating support approximately 10 centimeters above a ground plane. During the tests, the EUT is positioned over a ground reference plane in conformance with this requirement.

For tabletop equipment, a 1.5 by 1.0-meter metal sheet (HCP) is placed on the table and connected to the ground plane via a metal strap with two 470 k Ohms resistors in series. The EUT and attached cables are isolated from this metal sheet by 0.5-millimeter thick insulating material. A Vertical Coupling Plane (VCP) grounded on the ground plane through the same configuration as in the HCP is used.

Test Standard

EN 55024: 1998+A1: 2001+A2: 2003 (EN 61000-4-2: 1995+A1: 1998+A2: 2001)

Test level 3 for Air Discharge at ± 8 kV

Test level 2 for Contact Discharge at ± 4 kV

Test Level

Level	Test Voltage Contact Discharge (\pm kV)	Test Voltage Air Discharge (\pm kV)
1.	2	2
2.	4	4
3.	6	8
4.	8	15
X.	Special	Special

Performance criterion: B

Test Procedure

Air Discharge:

This test is done on non-conductive surfaces. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

Contact Discharge:

All the procedure shall be same as Section 8.3.1 of EN 61000-4-2, except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1 m from the EUT and with the discharge electrode touching the coupling plane.

Indirect discharge for vertical coupling plane

At least 20 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

Test Data and Setup Photo

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Eric Zhang on 209-11-06.

Test Mode: Talking

Table 1: Electrostatic Discharge Immunity (Air Discharge)

EN 61000-4-2 Test Points Location	Test Levels							
	-2 kV	+2 kV	-4 kV	+4 kV	-8 kV	+8 kV	-15 kV	+15 kV
Surface (14 points)	A	A	A	A	A	A	/	/
Slot (8 points)	A	A	A	A	A	A	/	/
Button (24 points)	A	A	A	A	A	A	/	/
LCD (4 points)	A	A	A	A	A	A	/	/

Table 2: Electrostatic Discharge Immunity (Direct Contact)

EN 61000-4-2 Test Points Location	Test Levels							
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
Screw (3 points)	A	A	A	A	/	/	/	/

Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)

EN 61000-4-2 Test Points Location	Test Levels							
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
Front Side	A	A	A	A	/	/	/	/
Back Side	A	A	A	A	/	/	/	/
Left Side	A	A	A	A	/	/	/	/
Right Side	A	A	A	A	/	/	/	/

Table 4: Electrostatic Discharge Immunity (Indirect Contact VCP)

EN 61000-4-2 Test Points Location	Test Levels							
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
Front Side	A	A	A	A	/	/	/	/
Back Side	A	A	A	A	/	/	/	/
Left Side	A	A	A	A	/	/	/	/
Right Side	A	A	A	A	/	/	/	/

Air Discharge



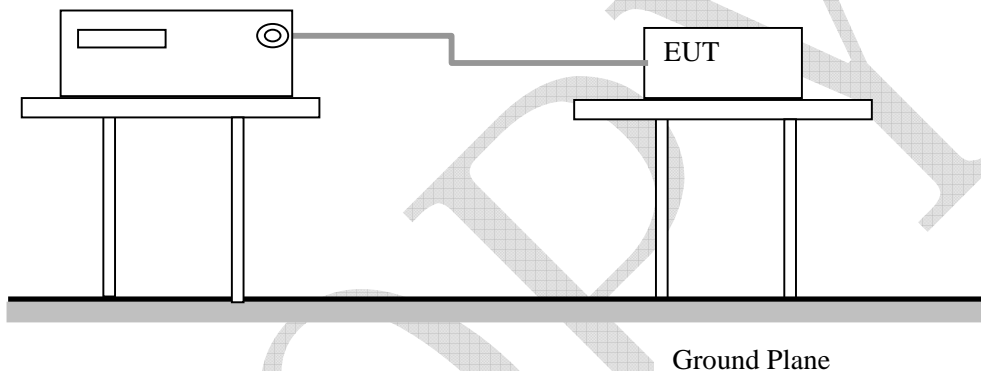
Indirect Contact



Test Setup Photo

EN 55024 §4.2.2-ELECTRICAL FAST TRANSIENTS (EN 61000-4-4)**Test Equipment**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EM Test	Ultra Compact Generator	UCS500-M4	0801-15	2009-04-28	2010-04-27
EM Test	Auto-transformer	MV2616	0403-16	2009-04-28	2010-04-27
EM Test	EFT Clamp	N/A	300886	2009-04-28	2010-04-27

Test System Setup**Test Standard**

EN 55024: 1998+A1: 2001+A2: 2003 (EN 61000-4-4: 2004)
 RJ11 Port: Test level 2 at 0.5 kV

Test Level

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1	0.5 kV	0.25 kV
2	1 kV	0.5 kV
3	2 kV	1 kV
4	4 kV	2 kV
X	Special	Special

Performance criterion: B

Test Procedure

The EUT was arranged for Power Line Coupling and for I/O Line Coupling through a capacitive clamp, where applicable. (Note: The I/O coupling test using a capacitive clamp is performed on the I/O interface cables that are longer in length than 3 meters.) A metal ground plane 2.4 meter by 2.0 meter was placed between the floor and the table and is connected to the earth by a 2.0 meter ground rod. The ground rod is connected to the test facility's electrical earth.

Test Data and Setup Photo**Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Eric Zhang on 2009-11-04.

Test Mode: Talking

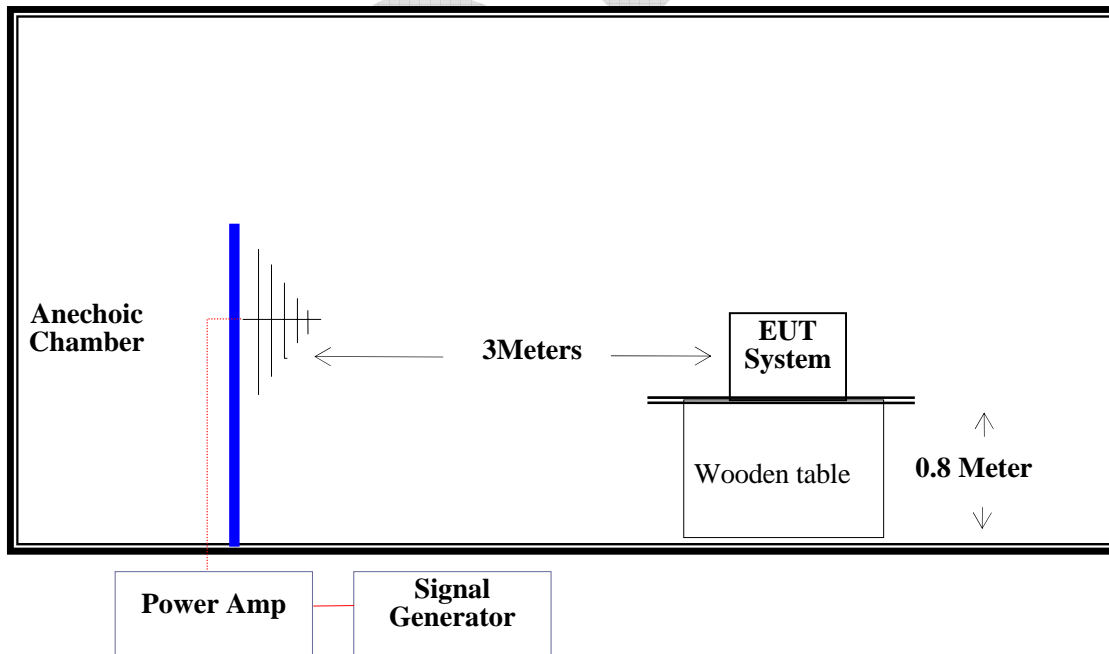
EN 61000-4-4 Test Points		Test Levels (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
AC mains power input ports	L1	/	/	/	/	/	/	/	/
	L2	/	/	/	/	/	/	/	/
	Earth	/	/	/	/	/	/	/	/
	L1+L2	/	/	/	/	/	/	/	/
	L1 + Earth	/	/	/	/	/	/	/	/
	L2 + Earth	/	/	/	/	/	/	/	/
	L1+L2+Earth	/	/	/	/	/	/	/	/
Signal ports	RJ11	A	A	/	/	/	/	/	/

**Test Setup Photo**

EN 55024 §4.2.3.1-CONTINUOUS RADIATED DISTURBANCES (EN 61000-4-3)**Test Equipment**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Amplifier Research	Amplifier	150W1000	302657	2008-11-15	2009-11-15
Amplifier Research	Field Meter	FM5004	302149	2008-11-10	2009-11-09
Amplifier Research	Sensor	FP5000	301825	2009-02-22	2010-02-22
HP	Signal Generator	HP8657A	2849U00982	2009-10-16	2010-10-16
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2009-03-11	2010-03-11
LEADER	AC MILLIVOLT METER	LMV-181A	6041126	2009-09-26	2010-09-25

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test System Setup

Test Standard

EN 55024: 1998+A1: 2001+A2: 2003 (EN 61000-4-3: 2006)
Test level 2 at 3V / m

Test Level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X.	Special

Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, an artificial ear and sound level meter are used to monitor the sound pressure level, and a RMS meter is used to monitor the noise signal of EUT. All the scanning conditions are as follows:

Condition of Test	Remarks
1. Field Strength	3 V/m (Test level 2)
2. Radiated Signal	Unmodulated 1 kHz 80% AM sine wave
3. Scanning Frequency	80 – 1000 MHz
4. Sweeping time of radiated	0.0015decade/s
5. Dwell Time	1Sec.

Test Data and Setup Photo

Environmental Conditions

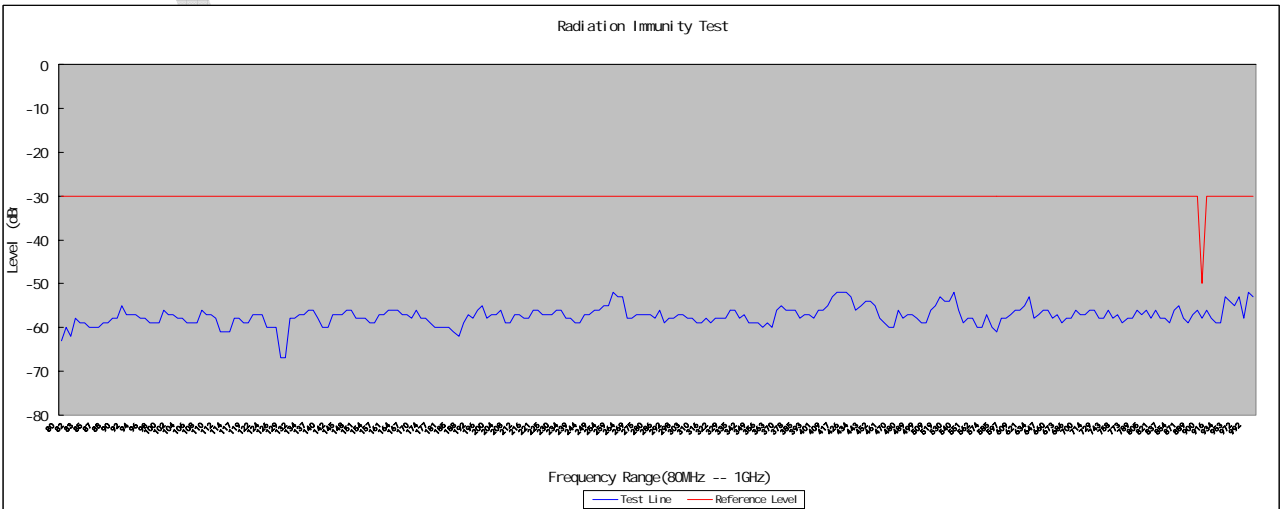
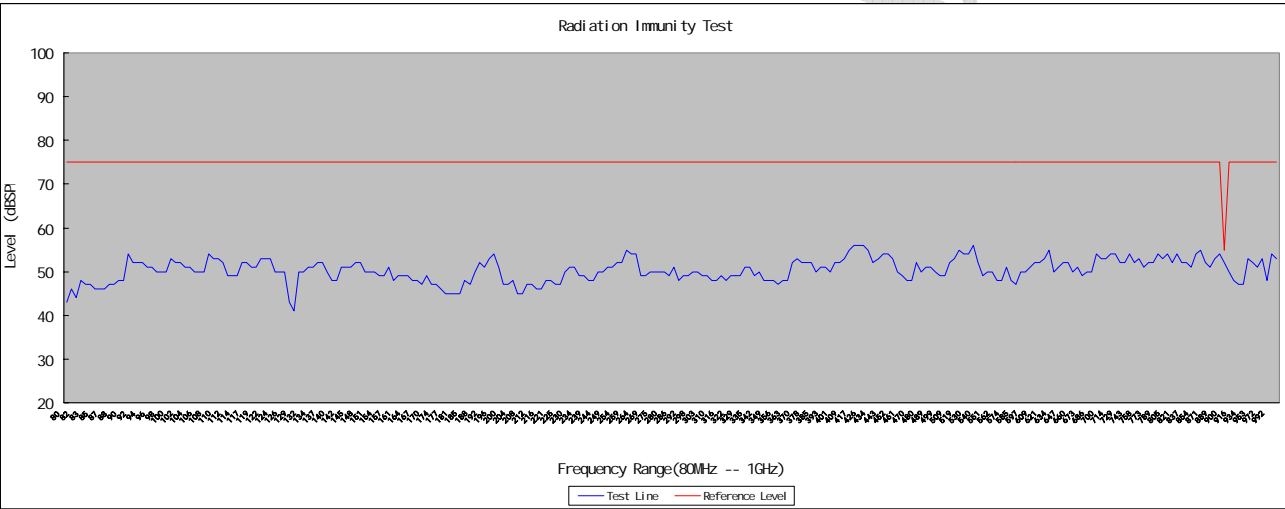
Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Eric Zhang on 2009-10-30.

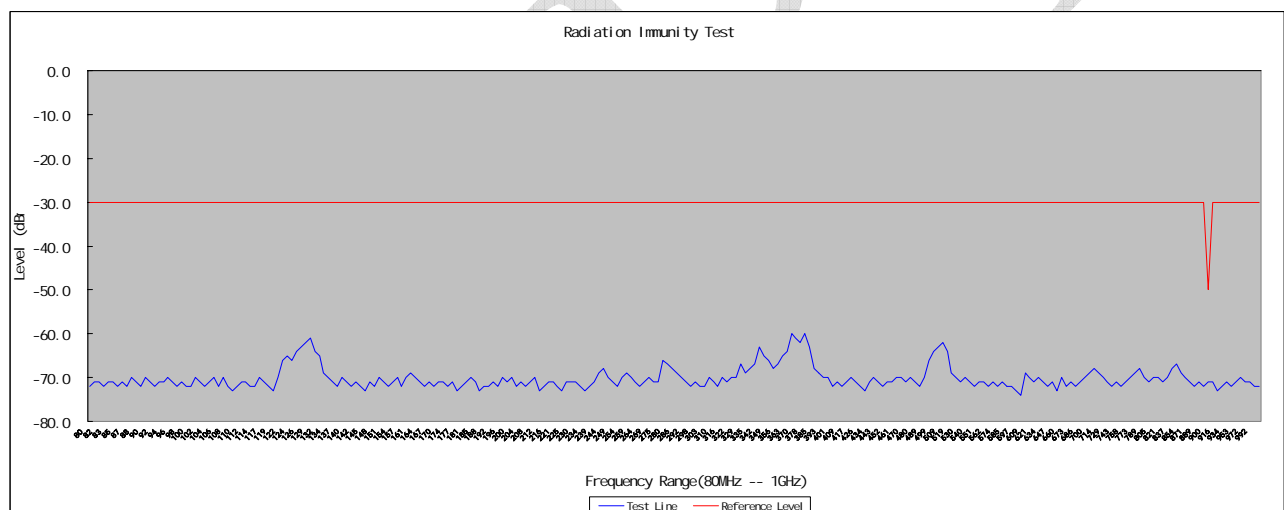
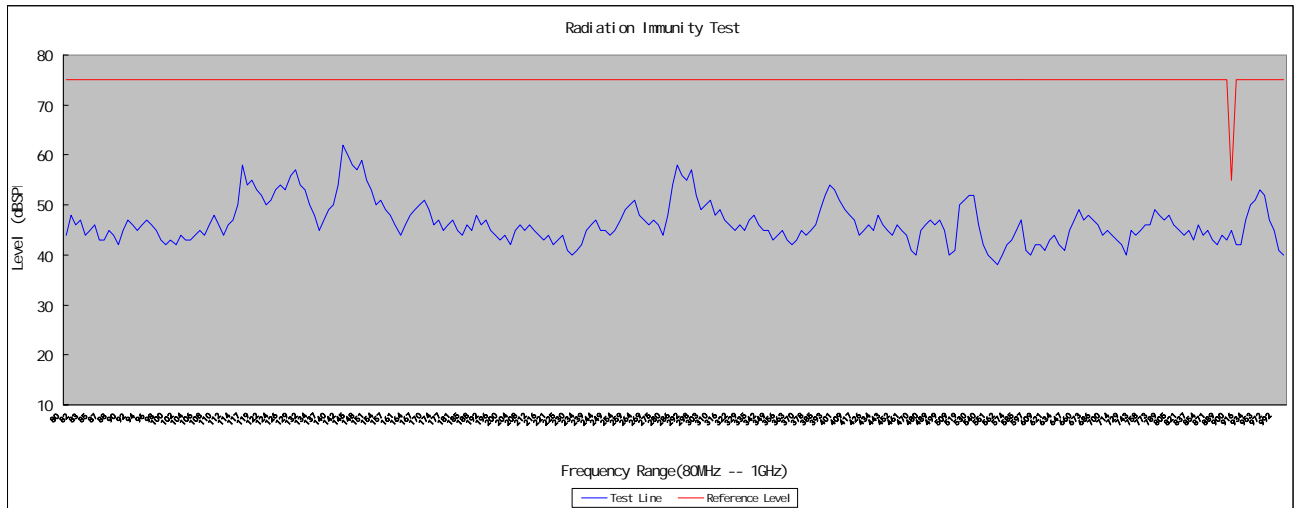
Test Mode: Talking

Test Result: Pass

Horizontal:



Vertical:





Test Setup Photo

EN 55024 §4.2.3.2-CONTINUOUS CONDUCTED DISTURBANCES (EN 61000-4-6)

Test Equipment

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EM Test	C/S Tester	CWS500	303277	2009-10-16	2010-10-16
EM Test	Attenuator	6dB	303282	2008-11-15	2009-11-15
EM Test	CDN	T2	1101-07	2009-04-28	2010-04-27

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attested that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Setup



Test Standard

EN 55024: 1998+A1: 2001+A2: 2003 (EN 61000-4-6: 2007)
Test level 2 at 3 V (r.m.s.), 0.15 MHz ~ 80 MHz,

Test Level

Level	Voltage Level (e.m.f.) (V)
1	1
2	3
3	10
X	Special

Test Procedure

- 1) Let the EUT work in test mode and test it.
- 2) The EUT are placed on an insulating support 0.1 m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3 m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 3) The disturbance signal described below is injected to EUT through CDN.
- 4) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 5) The frequency range is swept from 150 kHz to 80 MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1 KHz sine wave.
- 6) The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 7) In order to judge the EUT performance, an artificial ear and sound level meter are used to monitor the sound pressure level, and a RMS meter is used to monitor the noise signal of EUT.

Test Data and Setup Photo

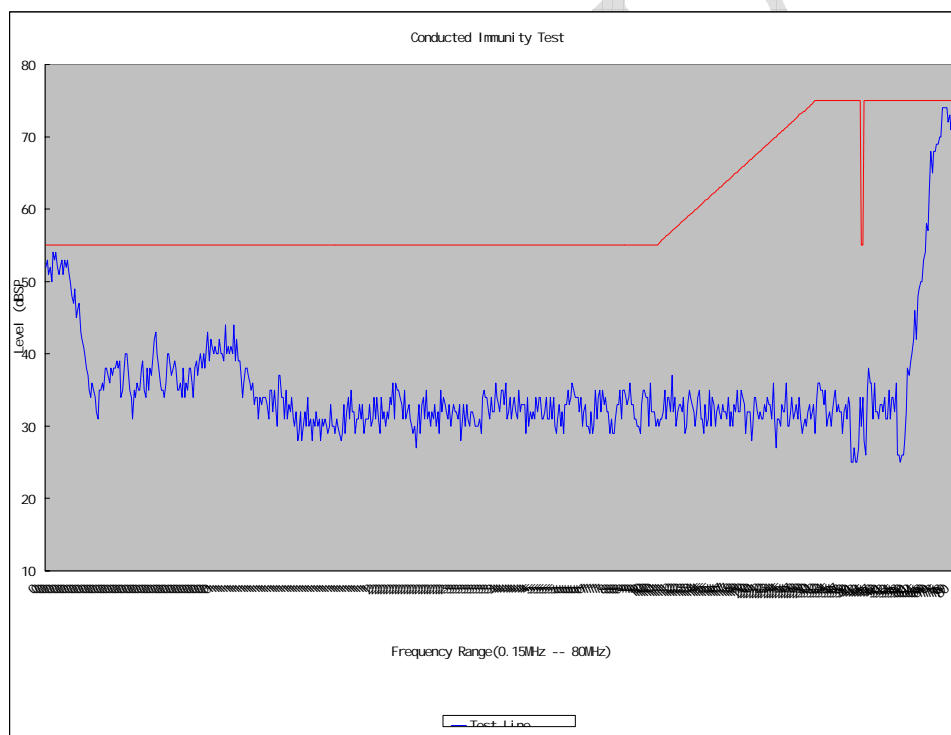
Environmental Conditions

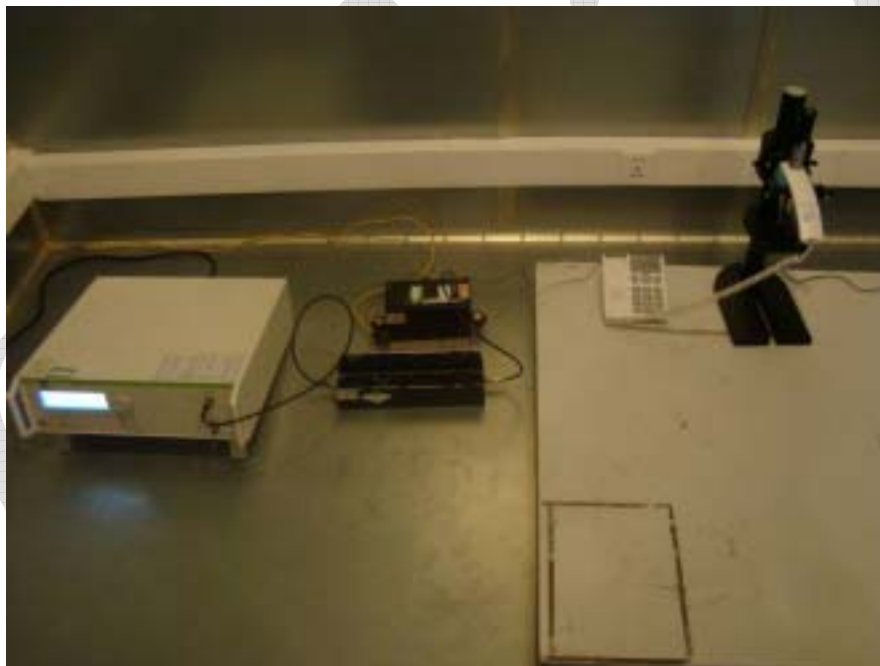
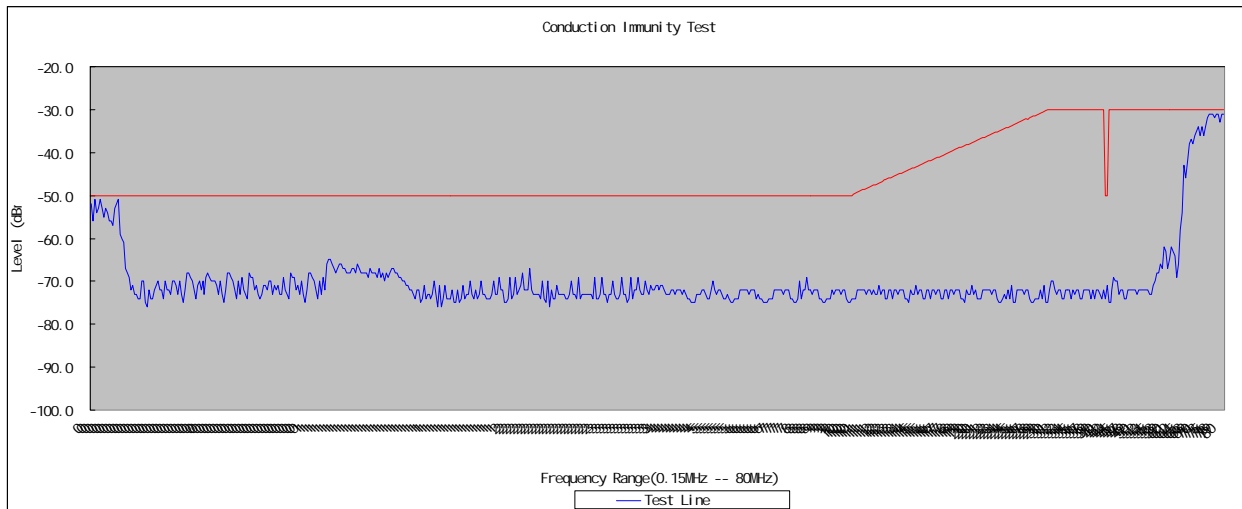
Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Eric Zhang on 2009-11-10.

Test Mode: Talking

Test Result: Pass

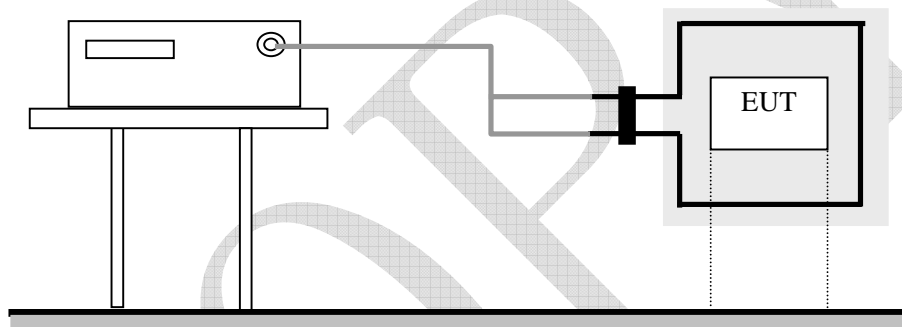




Test Setup Photo

EN 55024 §4.2.4-POWER-FREQUENCY MAGNETIC FIELDS (EN 61000-4-8)**Test Equipment**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EM Test	Ultra Compact Generator	UCS500-M4	0801-15	2009-04-28	2010-04-27
EM Test	Auto-transformer	MV2616	0403-16	2009-04-28	2010-04-27
Amplifier Research	Current Transformer	MC2630	301873	2009-03-07	2010-03-07
EM Test	Loop Antenna	MS100	303298	2009-03-07	2010-03-07

Test Setup**Test Standard**

EN 55024: 1998+A1: 2001+A2: 2003 (EN 61000-4-8: 1993+A1: 2001)
 Test level 1 at 1 A/m

Test Level

Level	Magnetic Field Strength A/m
1	1
2	3
3	10
4	30
5	100
X.	Special

Performance criterion: A

Test Procedure

The EUT shall be subjected to the test magnetic field by using the induction coil of standard dimensions (1 m*1 m). The induction coil shall then be rotated by 90° in order to expose the EUT to the test field with different orientations.

Test Data and Setup Photo

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Eric Zhang on 2009-11-06.

Test Mode: Talking

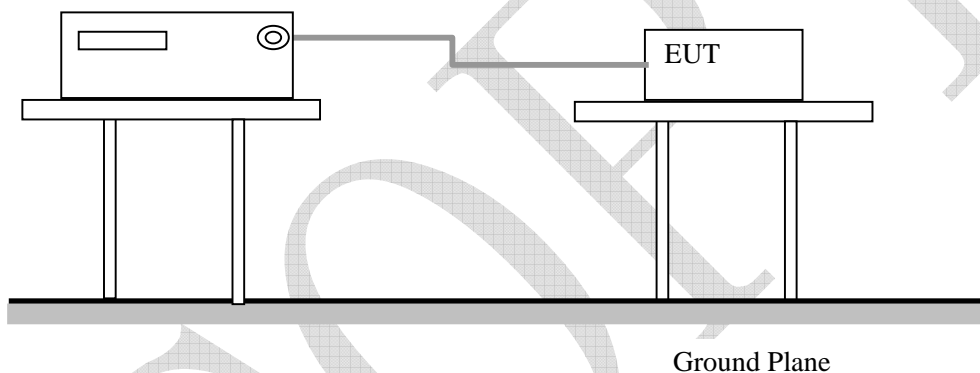
Level	Magnetic Field Strength A/m	X (Horizontal)	Y (Vertical)	Z (Special)
1	1	A	A	A
2	3	/	/	/
3	10	/	/	/
4	30	/	/	/
5	100	/	/	/
X	Special	/	/	/



Test Setup Photo

EN 55024 §4.2.5-SURGES (EN 61000-4-5)**Test Equipment**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EM Test	Ultra Compact Generator	UCS500-M4	0801-15	2009-04-28	2010-04-27
EM Test	Auto-transformer	MV2616	0403-16	2009-04-28	2010-04-27
EM Test	EM Test Coupling/Decoupling Network	CNV508 S1	V0502100037	2009-10-16	2010-10-16

Test System Setup**Test Standard**

EN 55024: 1998+A1: 2001+A2: 2003 (EN 61000-4-5: 2006)
RJ11 Port: Line-Ground: Test level 2 at 1 kV

Test Level

Level	Open Circuit Output Test Voltage $\pm 10\%$
1	0.5 kV
2	1 kV
3	2 kV
4	4 kV
X	Special

Performance criterion: B

Test Procedure

- 1) For line to line coupling mode, provide a 0.5 kV 1.2/50us voltage surge (at open-circuit condition).
- 2) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 3) Different phase angles are done individually.
- 4) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

Test Data and Setup Photo

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Eric Zhang on 2009-11-04.

Test Mode: Talking

Table 1: Unshielded I/O Circuits and Lines: RJ11 port

Level	Voltage	Poll	Path	Pass	Fail
1	0.5 kV	±	Line-Ground	A	/
2	1 kV	±	Line-Ground	A	/
3	2 kV	±	Line-Line, Line-Ground	/	/
4	4 kV	±	Line-Line, Line-Ground	/	/



Test Setup Photo

EXHIBIT A - EUT PHOTOGRAPHS

EUT – Top View



EUT – Bottom View



EUT – Handset Cover off Top View



EUT – Cover off View



EUT – Remove Battery View



EUT – Main Board Top View



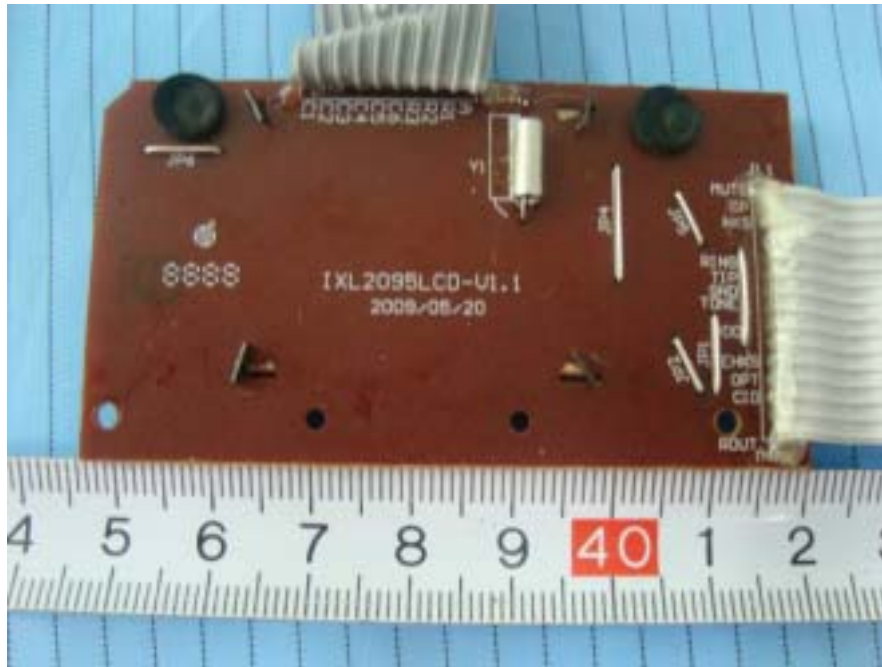
EUT – Main Board Bottom View



EUT – LCD Board Top View



EUT – LCD Board Bottom View



DECLARATION LETTER



XINGTEL XIAMEN ELECTRONICS CO., LTD.
Xingtel Building, Chuangxin Road, Torch Hi-Tech Industrial
District, Xiamen 361006, PR China
E-mail: info@xingtel.com Website: http://www.xingtel.com

Tel: +86-592-562-5929
+86-592-603 6442
Fax: +86-592-603-7860

To: Bay Area Compliance Laboratories Corp

Declaration of Similarity

To whom it may concern,

We,

Xingtel Xiamen Electronics Co., Ltd.

Address: Xingtel Building, Chuangxin Road, Torch Hi-tech Industrial District, Xiamen, 361006,
China

Hereby declare that

Product Name: Corded Phone

Model No. **TK4040**

belong to **TESANILETISIM A.S.** with the trade name is **TTEC PLUS**, it is exactly same with the
telephone model no. **XL-2095IDM**, and belong to **Xingtel**. These two models are electrically
and mechanically identical, The only difference between them is the model name!

Regards,

Xingtel Xiamen Electronics Co., Ltd.

Simon Liu

Director

November 3, 2009

****End of Report****